Appendix table 6-11

Participation of employed scientists and engineers in work-related training, by type of training, broad occupation, sex, race/ethnicity, and disability status: 1999

Page 1 of 2

| Number participating in work-related training, all occupations 7,611,800 4,894,300 2,717,500 6,322,800 514,000 453,400 294,600 24,200 7,109,700 5 S&E occupations 2,394,700 1,795,200 599,500 1,946,000 255,100 91,000 84,660 7,600 2,251,900 1 Science occupations 1432,900 399,800 493,100 1,167,600 148,600 62,800 49,200 4,600 1,333,100 1,167,600 148,600 62,800 4,100 2,600 1,700 742,400 1,167,600 1,167,600 1,167,600 1,167,600 1,167,600 1,167,600 1,170 1, | | | | | | | | | | | Page 1 of 2 |
|--|--|-----------|-----------|-----------|-----------|---------------|-----------------------------|----------|---------|--------------|--------------|
| Type of training attended* and occupation | | <u> </u> | Se | ex | | | Race/ethnicity ^b | | | Disabilit | y status |
| Type of training attended and occupation Total Male Female White Slander Black Hispanic Native disabilities Without disabilities Without Slander Slander Black Hispanic Native Mate Mise | | | | | | | | | | | |
| Number participating in work-related training all occupations. 7,611,800 4,894,300 2,717,500 6,322,800 514,000 453,400 294,600 24,200 7,109,700 5 | | | | | | | | | Indian/ | | |
| Number participating in work-related training during the past year | | | | | | Asian/Pacific | | | Alaskan | | With |
| All work-related training, all occupations. | Type of training attended and occupation | Total | Male | Female | White | Islander | Black | Hispanic | Native | disabilities | disabilities |
| S&E occupations | | | | | | | | | | | |
| Science occupations | All work-related training, all occupations | 7,611,800 | 4,894,300 | 2,717,500 | 6,322,800 | 514,000 | 453,400 | 294,600 | 24,200 | 7,109,700 | 502,000 |
| Computer/math scientists | S&E occupations | 2,384,700 | 1,795,200 | 589,500 | 1,946,000 | 255,100 | 91,000 | 84,600 | 7,600 | 2,251,900 | 132,900 |
| Life/related scientists | Science occupations | 1,432,900 | 939,800 | 493,100 | 1,167,600 | 148,600 | 62,800 | 49,200 | 4,600 | 1,353,100 | 79,800 |
| Physical/related scientists | Computer/math scientists | 785,700 | 559,900 | 225,700 | 612,200 | 105,600 | 40,100 | 26,000 | 1,700 | 742,400 | 43,300 |
| Social/related scientists | Life/related scientists | 210,000 | 135,900 | 74,100 | 178,200 | 20,000 | 4,100 | 6,500 | 1,200 | 198,600 | 11,400 |
| Engineering occupations | Physical/related scientists | 176,300 | 133,700 | 42,600 | 148,800 | 15,900 | 6,000 | 4,900 | 600 | 165,600 | 10,700 |
| Non-S&E occupations 5,227,000 3,099,100 2,127,900 4,376,800 258,900 362,400 210,000 16,700 4,857,900 3 | Social/related scientists | 260,900 | 110,300 | 150,600 | 228,300 | 7,100 | 12,600 | 11,800 | 1,000 | 246,400 | 14,500 |
| Nanagement/supervisor training, all occupations | Engineering occupations | 951,800 | 855,400 | 96,400 | 778,400 | 106,400 | 28,200 | 35,400 | 3,000 | 898,800 | 53,000 |
| Management/supervisor training, all occupations | Non-S&E occupations | 5,227,000 | 3,099,100 | 2,127,900 | 4,376,800 | 258,900 | 362,400 | 210,000 | 16,700 | 4,857,900 | 369,200 |
| occupations. 30.1 33.2 24.3 29.9 27.3 35.1 30.0 28.5 29.8 S&E occupations. 26.1 28.1 20.1 26.0 25.0 28.0 30.0 25.0 26.2 Science occupations. 21.6 23.4 18.2 21.1 23.2 24.0 25.2 21.7 21.6 Computer/math scientists. 23.7 24.2 22.4 23.2 24.1 25.7 30.0 S 23.8 Life/related scientists. 24.3 26.3 20.5 24.5 18.5 26.8 32.3 33.3 24.1 Physical/related scientists. 20.8 22.7 14.8 20.1 22.0 30.0 28.6 16.7 20.4 Social/related scientists. 13.6 16.4 11.6 13.3 26.8 15.9 10.2 20.0 13.7 Engineering occupations. 32.9 33.3 30.0 33.4 27.6 36.5 36.4 30.0 33.2 | | | | | | | | | | | |
| S&E occupations. 26.1 28.1 20.1 26.0 25.0 28.0 30.0 25.0 26.2 Science occupations. 21.6 23.4 18.2 21.1 23.2 24.0 25.2 21.7 21.6 Computer/math scientists. 23.7 24.2 22.4 23.2 24.1 25.7 30.0 S 23.8 Life/related scientists. 24.3 26.3 20.5 24.5 18.5 26.8 32.3 33.3 24.1 Physical/related scientists. 20.8 22.7 14.8 20.1 22.0 30.0 28.6 16.7 20.4 Social/related scientists. 13.6 16.4 11.6 13.3 26.8 15.9 10.2 20.0 13.7 Engineering occupations. 32.9 33.3 30.0 33.4 27.6 36.5 36.4 30.0 33.2 Non-S&E occupations. 31.9 36.2 25.5 31.7 29.5 36.9 30.0 29.9 31.5 Occupational training, all occupations. 87.3 86.3 89.2 | Management/supervisor training, all | | | | | | | | | | |
| Science occupations 21.6 23.4 18.2 21.1 23.2 24.0 25.2 21.7 21.6 Computer/math scientists 23.7 24.2 22.4 23.2 24.1 25.7 30.0 S 23.8 Life/related scientists 24.3 26.3 20.5 24.5 18.5 26.8 32.3 33.3 24.1 Physical/related scientists 20.8 22.7 14.8 20.1 22.0 30.0 28.6 16.7 20.4 Social/related scientists 13.6 16.4 11.6 13.3 26.8 15.9 10.2 20.0 13.7 Engineering occupations 32.9 33.3 30.0 33.4 27.6 36.5 36.4 30.0 33.2 Non-S&E occupations 31.9 36.2 25.5 31.7 29.5 36.9 30.0 29.9 31.5 Occupational training, all occupations 87.3 86.3 89.2 87.2 87.4 88.8 88.0 87.2 | occupations | 30.1 | 33.2 | 24.3 | 29.9 | 27.3 | 35.1 | 30.0 | 28.5 | 29.8 | 33.1 |
| Computer/math scientists. 23.7 24.2 22.4 23.2 24.1 25.7 30.0 S 23.8 Life/related scientists. 24.3 26.3 20.5 24.5 18.5 26.8 32.3 33.3 24.1 Physical/related scientists. 20.8 22.7 14.8 20.1 22.0 30.0 28.6 16.7 20.4 Social/related scientists. 13.6 16.4 11.6 13.3 26.8 15.9 10.2 20.0 13.7 Engineering occupations. 32.9 33.3 30.0 33.4 27.6 36.5 36.4 30.0 33.2 Non-S&E occupations. 31.9 36.2 25.5 31.7 29.5 36.9 30.0 29.9 31.5 Occupational training, all occupations. 87.3 86.3 89.2 87.2 87.4 88.8 88.0 87.2 87.5 S&E occupations. 87.1 86.6 88.7 86.8 88.4 90.3 87.0 86.8 <td>S&E occupations</td> <td>26.1</td> <td>28.1</td> <td>20.1</td> <td>26.0</td> <td>25.0</td> <td>28.0</td> <td>30.0</td> <td>25.0</td> <td>26.2</td> <td>24.4</td> | S&E occupations | 26.1 | 28.1 | 20.1 | 26.0 | 25.0 | 28.0 | 30.0 | 25.0 | 26.2 | 24.4 |
| Life/related scientists | Science occupations | 21.6 | 23.4 | 18.2 | 21.1 | 23.2 | 24.0 | 25.2 | 21.7 | 21.6 | 21.9 |
| Physical/related scientists. 20.8 22.7 14.8 20.1 22.0 30.0 28.6 16.7 20.4 Social/related scientists. 13.6 16.4 11.6 13.3 26.8 15.9 10.2 20.0 13.7 Engineering occupations. 32.9 33.3 30.0 33.4 27.6 36.5 36.4 30.0 33.2 Non-S&E occupations. 31.9 36.2 25.5 31.7 29.5 36.9 30.0 29.9 31.5 Occupational training, all occupations. 87.3 86.3 89.2 87.2 87.4 88.8 88.0 87.2 87.5 S&E occupations. 87.1 86.6 88.7 86.8 88.4 90.3 87.0 86.8 87.2 Science occupations. 88.9 88.6 89.4 88.7 90.6 89.2 89.0 82.6 88.8 Computer/math scientists. 89.9 89.8 90.1 89.0 93.6 92.5 91.2 94.1 89.8 Life/related scientists. 85.2 85.2 85.2 < | Computer/math scientists | 23.7 | 24.2 | 22.4 | 23.2 | 24.1 | 25.7 | 30.0 | S | 23.8 | 22.2 |
| Social/related scientists 13.6 16.4 11.6 13.3 26.8 15.9 10.2 20.0 13.7 Engineering occupations 32.9 33.3 30.0 33.4 27.6 36.5 36.4 30.0 33.2 Non-S&E occupations 31.9 36.2 25.5 31.7 29.5 36.9 30.0 29.9 31.5 Occupational training, all occupations 87.3 86.3 89.2 87.2 87.4 88.8 88.0 87.2 87.5 S&E occupations 87.1 86.6 88.7 86.8 88.4 90.3 87.0 86.8 87.2 Science occupations 88.9 88.6 89.4 88.7 90.6 89.2 89.0 82.6 88.8 Computer/math scientists 89.9 89.8 90.1 89.0 93.6 92.5 91.2 94.1 89.8 Life/related scientists 85.2 85.2 85.2 85.4 85.0 80.5 86.2 75.0 85.1 | Life/related scientists | 24.3 | 26.3 | 20.5 | 24.5 | 18.5 | 26.8 | 32.3 | 33.3 | 24.1 | 28.1 |
| Engineering occupations 32.9 33.3 30.0 33.4 27.6 36.5 36.4 30.0 33.2 Non-S&E occupations 31.9 36.2 25.5 31.7 29.5 36.9 30.0 29.9 31.5 Occupational training, all occupations 87.3 86.3 89.2 87.2 87.4 88.8 88.0 87.2 87.5 S&E occupations 87.1 86.6 88.7 86.8 88.4 90.3 87.0 86.8 87.2 Science occupations 88.9 88.6 89.4 88.7 90.6 89.2 89.0 82.6 88.8 Computer/math scientists 89.9 89.8 90.1 89.0 93.6 92.5 91.2 94.1 89.8 Life/related scientists 85.2 85.2 85.2 85.4 85.0 80.5 86.2 75.0 85.1 | Physical/related scientists | 20.8 | 22.7 | 14.8 | 20.1 | 22.0 | 30.0 | 28.6 | 16.7 | 20.4 | 27.1 |
| Non-S&E occupations | Social/related scientists | 13.6 | 16.4 | 11.6 | 13.3 | 26.8 | 15.9 | 10.2 | 20.0 | 13.7 | 12.4 |
| Non-S&E occupations | Engineering occupations | 32.9 | 33.3 | 30.0 | 33.4 | 27.6 | 36.5 | 36.4 | 30.0 | 33.2 | 28.1 |
| Occupational training, all occupations 87.3 86.3 89.2 87.2 87.4 88.8 88.0 87.2 87.5 S&E occupations 87.1 86.6 88.7 86.8 88.4 90.3 87.0 86.8 87.2 Science occupations 88.9 88.6 89.4 88.7 90.6 89.2 89.0 82.6 88.8 Computer/math scientists 89.9 89.8 90.1 89.0 93.6 92.5 91.2 94.1 89.8 Life/related scientists 85.2 85.2 85.2 85.4 85.0 80.5 86.2 75.0 85.1 | | | 36.2 | 25.5 | 31.7 | 29.5 | 36.9 | 30.0 | 29.9 | 31.5 | 36.3 |
| S&E occupations | | 87.3 | 86.3 | 89.2 | 87.2 | 87.4 | 88.8 | 88.0 | 87.2 | 87.5 | 84.8 |
| Science occupations | | | 86.6 | 88.7 | 86.8 | 88.4 | 90.3 | 87.0 | 86.8 | 87.2 | 86.0 |
| Computer/math scientists | | | | 89.4 | 88.7 | 90.6 | 89.2 | 89.0 | 82.6 | 88.8 | 90.0 |
| | Computer/math scientists | 89.9 | 89.8 | 90.1 | 89.0 | 93.6 | 92.5 | 91.2 | 94.1 | 89.8 | 91.2 |
| | • | | | 85.2 | | | | | 75.0 | | 86.0 |
| 1 Hybridalifeta soletillisis | Physical/related scientists | 85.1 | 85.2 | 84.5 | 85.8 | 79.2 | 81.7 | 85.7 | 83.3 | 85.1 | 84.1 |
| Social/related scientists | - | | | | | | | | | | 93.1 |
| Engineering occupations | | | | | | | | | | | 80.0 |
| Non-S&E occupations | | | | | | | | | | | 84.4 |

See explanatory information and SOURCE at end of table.

Appendix table 6-11

Participation of employed scientists and engineers in work-related training, by type of training, broad occupation, sex, race/ethnicity, and disability status: 1999

Page 2 of 2

| | | Se | ex | Race/ethnicity ^b | | | | | Disability status | |
|--|--|------|--------|-----------------------------|---------------|-------|----------|----------|-------------------|--------------|
| | | | | | | | | American | | |
| | | | | | | | | Indian/ | | |
| | | | | | Asian/Pacific | | | Alaskan | Without | With |
| Type of training attended and occupation | Total | Male | Female | White | Islander | Black | Hispanic | Native | disabilities | disabilities |
| | Percent of those participating in training who participated in each type of training | | | | | | | | | |
| General professional training, all occupations | 22.8 | 22.7 | 22.9 | 22.2 | 23.1 | 27.9 | 27.2 | 23.1 | 22.5 | 26.9 |
| S&E occupations | 22.0 | 21.6 | 23.4 | 21.2 | 23.8 | 28.7 | 29.0 | 23.7 | 21.9 | 24.5 |
| Science occupations | 20.4 | 19.6 | 22.0 | 19.5 | 20.9 | 28.8 | 28.7 | 26.1 | 20.3 | 21.8 |
| Computer/math scientists | 20.4 | 19.4 | 22.8 | 19.8 | 18.4 | 26.4 | 31.2 | 23.5 | 20.3 | 21.0 |
| Life/related scientists | 23.5 | 21.4 | 27.3 | 22.6 | 24.0 | 41.5 | 32.3 | 33.3 | 23.3 | 27.2 |
| Physical/related scientists | 20.0 | 18.9 | 23.5 | 18.4 | 28.9 | 28.3 | 30.6 | 16.7 | 20.1 | 18.7 |
| Social/related scientists | 18.3 | 19.0 | 17.7 | 16.9 | 31.0 | 32.5 | 21.2 | 30.0 | 18.1 | 22.1 |
| Engineering occupations | 24.5 | 23.8 | 30.7 | 23.7 | 27.8 | 28.4 | 29.1 | 20.0 | 24.3 | 28.5 |
| Non-S&E occupations | 23.1 | 23.3 | 22.8 | 22.6 | 22.4 | 27.8 | 26.5 | 22.8 | 22.8 | 27.8 |

S data with weighted values less than 50 or fewer than 5 respondents are suppressed for reasons of respondent confidentiality and/or data reliability

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Figures are rounded to the nearest hundred. Details may not add to totals because of rounding and because individuals could participate in more than one type of training.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

Women, Minorities, and Persons With Disabilities in Science and Engineering: 2002

^aIncludes management/supervisory training, training in one's occupational field, and general professional training (e.g., public speaking, business writing).

^bTotal includes "other" race/ethnicity not shown separately.